



300N Draft 802.11n Wireless Router

Model # AR625W

User's Manual

Rev. 1.1

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1. Introduction

Congratulations on your purchase of the 300N Wireless Router. The 300N Wireless Router provides wireless data rate of up to 300 Mbps* when used with other AirLink101™ 300N wireless products. The high bandwidth combined with extended wireless coverage delivers fast and reliable connection for all of your networking applications.

A full range of security features such as WEP, WPA-PSK, and WPA2-PSK provide the highest level of wireless network security. The built-in Web Configuration Utility allows you to set up the router with an easy-to-use user interface. Best of all the 300N Wireless Router works with 802.11g and 802.11b network devices ensuring compatibility with your existing wireless products.

1.1 Package Contents

Before you begin the installation, please check the items of your package:

- 300N Wireless Router
- RJ-45 Cable
- Power Adapter
- Quick Installation Guide
- Manual CD

If any item contained is damaged or missing, please contact your local dealer immediately. Also, keep the box and packaging materials in case you need to ship the unit in the future.

1.2 Features

- Industry's highest wireless data rate of up to 300 Mbps* with IEEE 802.11n draft specification version 1.0.
- 3 antennas for wider coverage and stronger signal strength to eliminate dead spots
- 64-bit/128-bit WEP encryption, Pre-shared Key (PSK), and Wi-Fi Protected Access (WPA2) and WPA support provide full protection for your wireless connection
- Higher data rate increases the reliability and stability of wireless connections
- Great for environments with higher wireless data traffic requirements
- Fully backward-compatible with 802.11b/g devices
- Works best with AirLink101™ 300N Wireless Adapters

2. Connecting the Router

Note: Prior to connecting the router, be sure to power off your computer, DSL/Cable modem, and the router. To achieve maximum wireless coverage, tilt the router's antennas outward at 45° angle.

Step 1 Connect one end of a network cable to the **WAN** port of the router and connect the other end of the cable to the DSL/Cable modem.

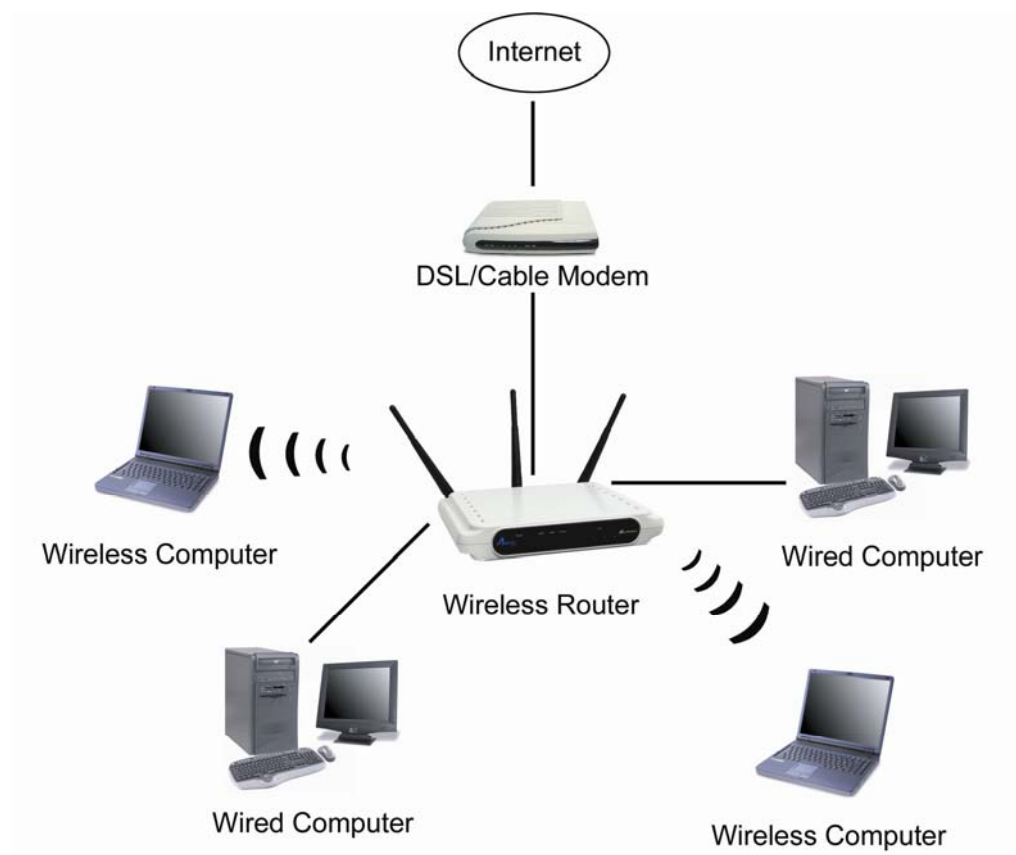
Step 2 With another network cable, connect one end of the cable to your computer's network card and connect the other end to one of the **LAN** ports of the router.

Step 3 Power on the DSL/Cable modem and wait for the lights on the modem to settle down.

Step 4 Power on the router by connecting one end of the supplied power adapter to the power jack of the router and connecting the other end to an electrical outlet.

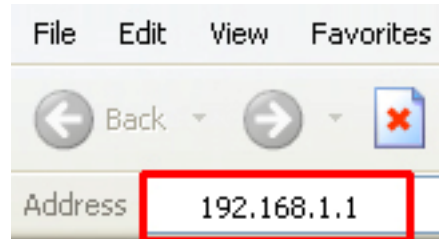
Step 5 Power on your computer.

Step 6 Make sure the **WAN**, **WLAN**, and the **LAN** ports that the computer is connected to are lit. If not, try the above steps again.



3. Configuring the Router

Step 1 Open the web browser (Internet Explorer or Netscape), type **192.168.1.1** in the Address bar and press **Enter**.



Step 2 Enter **admin** for both the username and password fields and click **OK**.



Cable Modem

For most cable modem users, you should be able to connect to the Internet without any configuration. If your ISP has provided you with a host name, enter it in the optional **Host Name** field. Click **Apply** to save the setting.



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Set-up Wireless Security Access Restrictions Applications Gaming Admin Status

Basic Setup DDNS MAC Address Clone Advanced Routing

Internet Setup

Internet Connection Type: Automatic Configuration - DHCP

Optional Settings (required by some Internet Service Providers):

Host Name:

Domain Name: Airlink101

MTU: Auto Size: 1500

If your ISP requires a registered MAC Address, click on the **MAC Address Clone** tab, select **Enabled**, and click on the **Clone My PC's MAC** button. Click **Apply** to save the setting.



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Set-up Wireless Security Access Restrictions Applications Gaming Admin Status

Basic Setup DDNS MAC Address Clone Advanced Routing

MAC Address Clone

☒ Enabled ☐ Disabled

MAC Address:

Clone My PC's MAC

Apply Cancel

If you have trouble connecting to the Internet, please refer to **Section 5, Verifying Connection**.

DSL

For DSL users, follow the steps below to configure the router.

Step 1 Select **PPPoE** from the drop-down menu.

The screenshot shows the 'Internet Setup' section of the router's configuration page. The 'Internet Connection Type' dropdown menu is open, showing options: Automatic Configuration - DHCP, Automatic Configuration - DHCP, Static IP, PPPoE (highlighted), PPTP, and Heart Beat Signal. The 'Set-up' tab is selected in the top navigation bar, and the 'Basic Setup' sub-tab is active. The MTU is set to 'Auto' and the Size is '1500'.

Step 2 Enter your username and password provided by your ISP.

The screenshot shows the 'Internet Setup' section with 'PPPoE' selected in the 'Internet Connection Type' dropdown. The 'Username' and 'Password' fields are highlighted with a red box. Below these fields, there are two radio button options: 'Connect on Demand: Max Idle Time 15 Minutes' and 'Keep Alive: Redial Period 30 Seconds'. The 'Set-up' tab is selected in the top navigation bar, and the 'Basic Setup' sub-tab is active.

Note: Depending on the ISP, you may need to include the domain name with your username.

Example: **username@sbcglobal.net**

Step 3 Click **Apply** to save the setting.

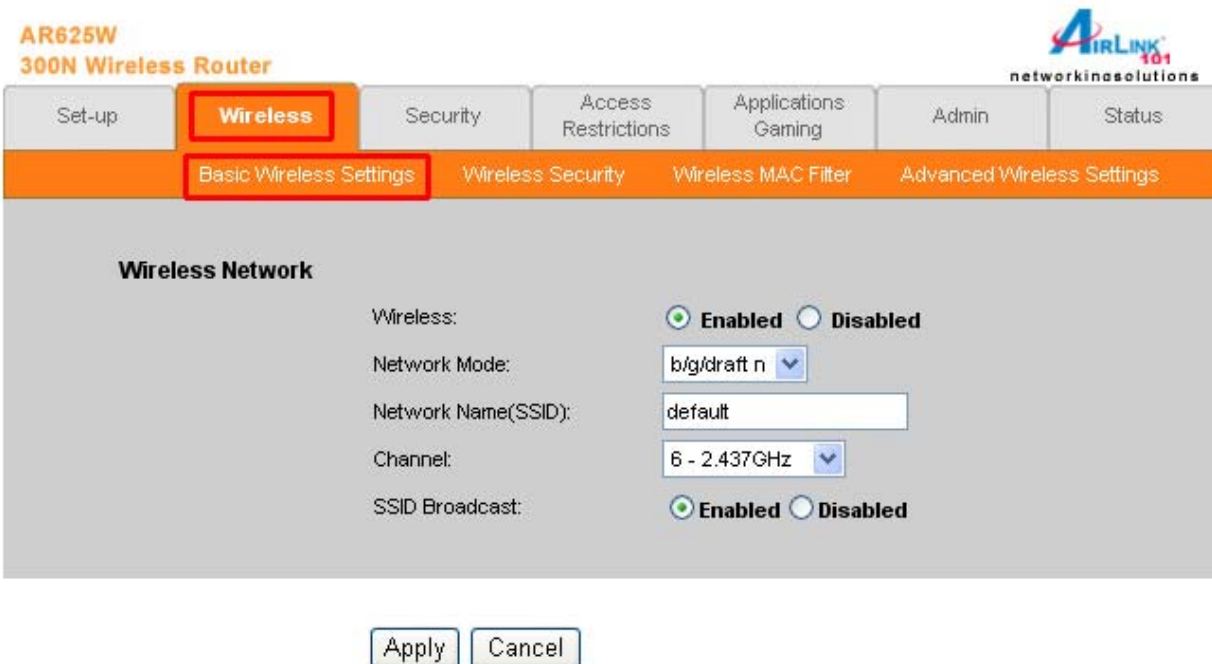
If you have trouble connecting to the Internet, please refer to **Section 5, Verifying Connection**.

4. Connecting to the Router Wirelessly

Below are the default wireless settings of the router. You must configure your wireless network card to the same settings in order to establish a wireless connection to the router. Please refer to your wireless network card's manual on how to configure these settings.

SSID (Network Name): **default**
Operating Mode: **Infrastructure**
Authentication: **Auto**
Channel #: **6**
Encryption: **Disabled**

If you want to change the router's wireless settings, log in to the router and select the **Wireless** tab. Be sure to click **Apply** to save the setting.



The screenshot displays the configuration interface for an AR625W 300N Wireless Router. The top navigation bar includes tabs for Set-up, **Wireless**, Security, Access Restrictions, Applications Gaming, Admin, and Status. The **Wireless** tab is active, and its sub-menu shows **Basic Wireless Settings**, Wireless Security, Wireless MAC Filter, and Advanced Wireless Settings. The main content area, titled "Wireless Network", contains the following settings:

- Wireless: ☒ **Enabled** ☐ **Disabled**
- Network Mode: b/g/draft n (dropdown menu)
- Network Name(SSID): default (text field)
- Channel: 6 - 2.437GHz (dropdown menu)
- SSID Broadcast: ☒ **Enabled** ☐ **Disabled**

At the bottom of the page, there are two buttons: **Apply** and **Cancel**.

5. Verifying Connection

If you have trouble connecting to the Internet, try the following steps.

Step 1 Power off the Cable/DSL modem, router, and computer and wait for **5 minutes**.

Step 2 Turn on the Cable/DSL modem and wait for the lights on the modem to settle down.

Step 3 Turn on the router and wait for the lights on the router to settle down.

Step 4 Turn on the computer.

Step 5 Reconfigure the router as described in **Section 3**.

Step 6 Log in to the router and select the **Status** tab.

Step 7 Verify that the **Internet IP Address**, **Default Gateway**, and at least one of the **DNS** fields have valid numbers assigned to them (instead of all 0's).

The screenshot shows the web interface of an AR625W 300N Wireless Router. The top navigation bar includes tabs for Set-up, Wireless, Security, Access Restrictions, Applications Gaming, Admin, and Status. The Status tab is selected, and the Router sub-tab is active. The main content area is divided into two sections: Router Information and Internet Connections. The Router Information section displays the following details: Firmware Version: v1.0.8 ap8x-2.1.4p7.o, Current Time: Thu Aug 17 22:21:10 2006 (GMT -08:00), Internet MAC Address: 00:14:6C:B6:5D:DF, Host Name: Airlink101, and Domain Name: Airlink101. The Internet Connections section shows the Connection Type as Automatic Configuration - DHCP. A red box highlights the Internet IP Address (192.168.7.101), Subnet Mask (255.255.255.0), Default Gateway (192.168.7.1), and DNS 1 (192.168.7.1). Below these fields are buttons for IP Address Release and IP Address Renew. At the bottom of the page is a Refresh button.

Router Information	
Firmware Version:	v1.0.8 ap8x-2.1.4p7.o
Current Time:	Thu Aug 17 22:21:10 2006 (GMT -08:00)
Internet MAC Address:	00:14:6C:B6:5D:DF
Host Name:	Airlink101
Domain Name:	Airlink101

Internet Connections	
Connection Type:	Automatic Configuration - DHCP
Internet IP Address:	192.168.7.101
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.7.1
DNS 1:	192.168.7.1
DNS 2:	0.0.0.0
DNS 3:	
MTU:	Auto

Buttons: IP Address Release, IP Address Renew, Refresh

If you see all 0's, click on the **IP Address Renew** button (for Cable Modem users) or the **Connect** button (for DSL users).

If each field has a valid number assigned, the router is connected to the Internet.

6. Web Configuration Utility

This router has a built-in web configuration utility that you can use to configure the router's settings. Simply log in to the router using your computer's web browser.

6.1 Setup

6.1.1 Basic Setup

This is the default screen when you log in to the router's web configuration utility. You can setup your Internet connection here as well as configuring the DHCP settings and selecting your Time Zone.

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Set-up Wireless Security Access Restrictions Applications Gaming Admin Status

Basic Setup DDNS MAC Address Clone Advanced Routing

Internet Setup

Internet Connection Type: Automatic Configuration - DHCP

Optional Settings (required by some Internet Service Providers)

Host Name:

Domain Name: Airlink101

MTU: Auto Size: 1500

Network Setup

Router IP

Local IP Address: 192 . 168 . 1 . 1

Subnet Mask: 255.255.255.0

DHCP Server Setting

DHCP Server: ☒ Enabled ☐ Disabled Static DHCP

Start IP Address: 192 . 168 . 1 . 100

Maximum Number of Users: 50

IP Address Range: 192 . 168 . 1 . 100~149

Client Lease Time: 0 minutes (0 means one day)

Static DNS 1: 0 . 0 . 0 . 0

Static DNS 2: 0 . 0 . 0 . 0

Static DNS 3: 0 . 0 . 0 . 0

WINS: 0 . 0 . 0 . 0

Time Settings

Time Zone: (GMT-08:00) Pacific Time (USA & Canada)

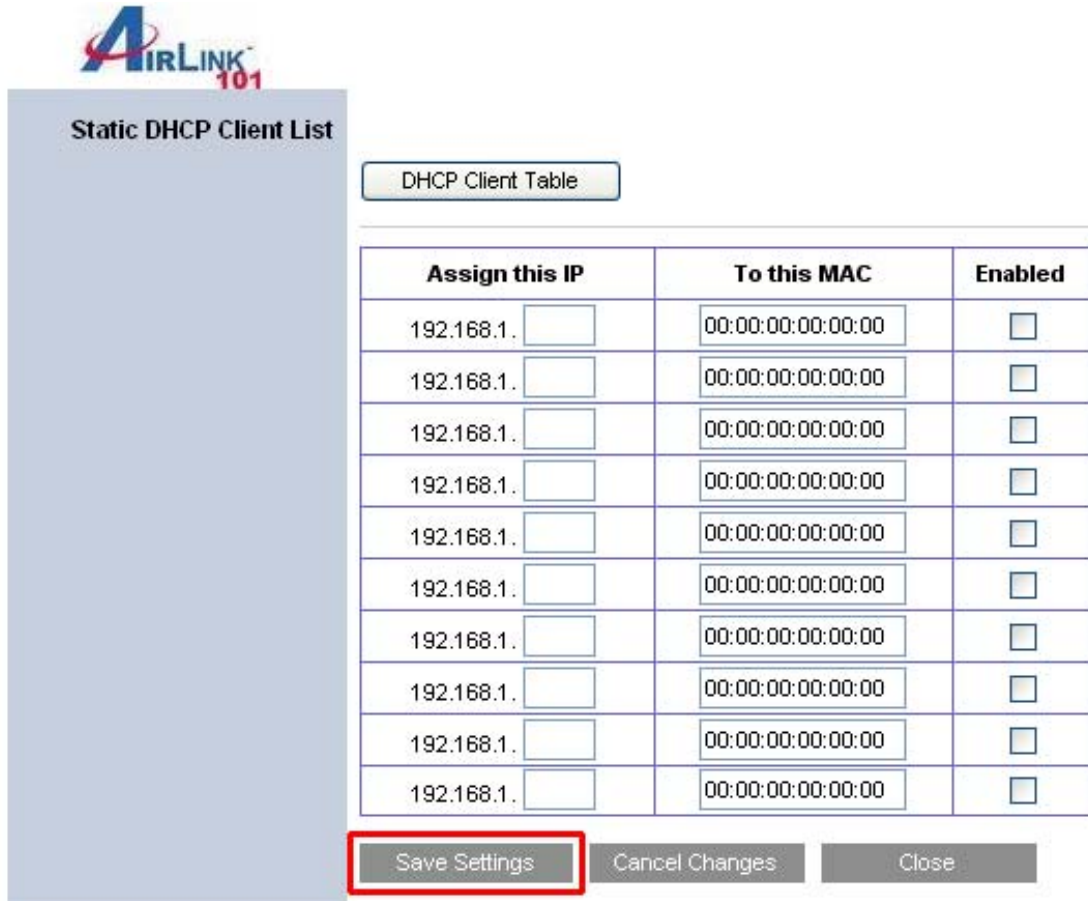
☒ Automatically adjust clock for daylight saving changes.

Apply Cancel

Remember to click **Apply** to save your changes.

Assigning Static IP Address

If you want to assign a static IP Address to one of the computers in your network, click on the **Static DHCP** button.



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Static DHCP Client List

DHCP Client Table

Assign this IP	To this MAC	Enabled
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>

Save Settings **Cancel Changes** **Close**

Step 1 Enter the Static IP Address in the **Assign this IP** field.

Step 2 Enter the MAC address of the corresponding computer in the **To this MAC** field.

Step 3 Check the **Enabled** box.

Step 4 Click **Save Settings**.

6.1.2 DDNS

Dynamic DNS (DDNS) allows any user who wishes to access your server to reach it by a registered DNS name instead of an IP address. Before you enable **DDNS**, you need to register an account with one of the DDNS providers listed in the drop-down menu.

The screenshot shows the configuration interface for an AR625W 300N Wireless Router. The top navigation bar includes tabs for Set-up, Wireless, Security, Access Restrictions, Applications Gaming, Admin, and Status. The Set-up tab is active, and within it, the DDNS sub-tab is selected. The DDNS section contains a 'DDNS Service' dropdown menu currently set to 'Disable'. At the bottom of the page are 'Apply' and 'Cancel' buttons.

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Set-up Wireless Security Access Restrictions Applications Gaming Admin Status

Basic Setup DDNS MAC Address Clone Advanced Routing

DDNS

DDNS Service Disable

Apply Cancel

To Enable DDNS, select the DDNS provider you have registered with and enter the required fields. Click **Apply** to save the setting.

6.1.3 MAC Address Clone

Some ISPs require a registered MAC address to access the Internet. You can use the following steps to clone your PC's registered MAC address to access the Internet.

The screenshot shows the web interface of an AR625W 300N Wireless Router. The top navigation bar includes tabs for Set-up, Wireless, Security, Access Restrictions, Applications Gaming, Admin, and Status. Below this, a secondary bar highlights Basic Setup, DDNS, MAC Address Clone, and Advanced Routing. The MAC Address Clone page is active, showing a radio button selection for Enabled (selected) and Disabled. Below this, the MAC Address field is displayed with six input boxes, each containing '00'. A button labeled 'Clone My PC's MAC' is positioned below the input boxes. At the bottom of the page, there are 'Apply' and 'Cancel' buttons.

Step 1 Select **Enabled** from the drop-down menu.

Step 2 Click the **Clone My PC's MAC** button.

Step 3 Click **Apply** to save the setting.

6.1.4 Advanced Routing

You can configure your own static routing table using the Advanced Routing function.

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Set-up Wireless Security Access Restrictions Applications Gaming Admin Status

Basic Setup DDNS MAC Address Clone Advanced Routing

Advanced Routing

NAT ☒ Enabled ☐ Disabled

Dynamic Routing (RIP) ☐ Enabled ☒ Disabled

Static Routing

Route Entries:	1 ---	Delete This Entry
Enter Route Name:	<input type="text"/>	
Destination LAN IP:	<input type="text"/> 0 <input type="text"/> 0 <input type="text"/> 0 <input type="text"/> 0	
Subnet Mask :	<input type="text"/> 0 <input type="text"/> 0 <input type="text"/> 0 <input type="text"/> 0	
Gateway :	<input type="text"/> 0 <input type="text"/> 0 <input type="text"/> 0 <input type="text"/> 0	
Interface :	<input type="text"/> LAN & Wireless	
<input type="button" value="Show Routing Table"/>		

To see the current routing table, click on **Show Routing Table** button.

Be sure to click **Apply** to save each entry.

6.2. Wireless

6.2.1 Basic Wireless Settings

You can configure the router's basic wireless settings on this screen.

The screenshot displays the configuration interface for an AR625W 300N Wireless Router. The top navigation bar includes tabs for Set-up, Wireless (highlighted), Security, Access Restrictions, Applications Gaming, Admin, and Status. Below this, a sub-navigation bar shows Basic Wireless Settings (highlighted), Wireless Security, Wireless MAC Filter, and Advanced Wireless Settings. The main content area is titled "Wireless Network" and contains the following settings:

- Wireless:** A radio button selection with ☒ Enabled and ☐ Disabled.
- Network Mode:** A dropdown menu currently set to "b/g/draft n".
- Network Name (SSID):** A text input field containing the value "default".
- Channel:** A dropdown menu currently set to "6 - 2.437GHz".
- SSID Broadcast:** A radio button selection with ☒ Enabled and ☐ Disabled.

At the bottom of the configuration area, there are two buttons: "Apply" and "Cancel".

Wireless: Select to Enable or Disable the wireless feature of the router.

Network Mode: Choose the applicable network mode for your wireless network.

Network Name (SSID): You can change the router's SSID in this field. Once you have changed the SSID, your network clients need to re-connect themselves using the new SSID.

Channel: Select the desired channel. All the network clients need to use the same channel.

SSID Broadcast: Choose to enable or disable the broadcast of your SSID.

6.2.2 Wireless Security

You can configure wireless security such as WEP or WPA encryption on this screen.

Note: It is recommended that you use WPA-PSK encryption over WEP if your wireless clients support WPA-PSK. All of the wireless clients must use the same security settings in order to connect to the router.

WEP

To enable WEP, select **WEP** from the **Security Mode**.

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Set-up **Wireless** Security Access Restrictions Applications Gaming Admin Status

Basic Wireless Settings **Wireless Security** Wireless MAC Filter Advanced Wireless Settings

Wireless Security

Security Mode: WEP

Encryption: 40 / 64-bit (10 hex digits)

Passphrase:

Key 1:

Key 2:

Key 3:

Key 4:

TX Key: 1

Encryption: Choose from **64 bits** or **128 bits**

Passphrase: You can enter a passphrase and click on the **Generate** button and the router will automatically generate four WEP keys for you.

WEP Key 1 – 4: Manually assign a passphrase for each key. If you selected **64 bits** encryption, enter **10** HEX characters (0-F) for each key. If you selected **128 bits** encryption, enter **26** HEX characters (0-F) for each key.

TX Key: Select a key to be the active key.

Click **Apply** to save the setting.

WPA-PSK

To enable WPA, select **WPA-PSK** or **WPA2-PSK** from the **Security Mode**.

The screenshot shows the configuration interface for an AR625W 300N Wireless Router. The top navigation bar includes tabs for Set-up, Wireless, Security, Access Restrictions, Applications Gaming, Admin, and Status. The 'Wireless' tab is selected, and the 'Wireless Security' sub-tab is active. The 'Wireless Security' section contains the following settings:

- Security Mode:** WPA-PSK (selected from a dropdown menu)
- Encryption:** TKIP (selected from a dropdown menu)
- Passphrase:** A text input field, currently empty, highlighted with a red box.
- Key Renewal:** 3600 seconds

At the bottom of the page, there are two buttons: 'Apply' and 'Cancel'. The 'Apply' button is highlighted with a red box.

Encryption: Select either **TKIP** or **AES** as the encryption method.

Passphrase: Enter a passphrase between 8 to 63 characters long.

Key Renewal: Enter the desired key renewal time in seconds.

Click **Apply** to save the setting.

WPA with RADIUS

If you want to use WPA in conjunction with a RADIUS server in your network for authentication, you may choose **WPA** or **WPA2** from the **Security Mode**.

The screenshot shows the configuration interface for an AR625W 300N Wireless Router. The top navigation bar includes tabs for Set-up, Wireless, Security, Access Restrictions, Applications Gaming, Admin, and Status. The 'Wireless' tab is selected, and the 'Wireless Security' sub-tab is active. The 'Security Mode' is set to 'WPA'. The 'Encryption' is set to 'TKIP'. The 'RADIUS Server' field is set to '0.0.0.0', the 'RADIUS Port' is '1812', and the 'Shared Secret' is empty. The 'Key Renewal' is set to '3600' seconds. The 'Apply' button is highlighted with a red box.

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Set-up **Wireless** Security Access Restrictions Applications Gaming Admin Status

Basic Wireless Settings **Wireless Security** Wireless MAC Filter Advanced Wireless Settings

Wireless Security

Security Mode: WPA

Encryption: TKIP

RADIUS Server: 0 . 0 . 0 . 0

RADIUS Port: 1812

Shared Secret:

Key Renewal: 3600 seconds

Apply Cancel

Encryption Methods: Select either **TKIP** or **AES** as the encryption method. (WPA2 uses AES only).

RADIUS Server: Enter the IP Address of your RADIUS server.

RADIUS Port: Enter the port number of your RADIUS server.

Shared Secret: Enter the shared key.

Key Renewal: Enter the desired key renewal time in seconds.

Click **Apply** to save the setting.

6.2.3 Wireless MAC Filter

You can restrict certain wireless clients from accessing the router by specifying their MAC address and enabling access restriction.

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Set-up **Wireless** Security Access Restrictions Applications Gaming Admin Status

Basic Wireless Settings Wireless Security **Wireless MAC Filter** Advanced Wireless Settings

Wireless MAC Filter

☐ Enabled ☒ Disabled

☐ Prevent PCs listed below from accessing the wireless network.

☐ Permit PCs listed below to access the wireless network.

Wireless Client Table

MAC 1:	00:00:00:00:00:00	MAC 17:	00:00:00:00:00:00
MAC 2:	00:00:00:00:00:00	MAC 18:	00:00:00:00:00:00
MAC 3:	00:00:00:00:00:00	MAC 19:	00:00:00:00:00:00
MAC 4:	00:00:00:00:00:00	MAC 20:	00:00:00:00:00:00
MAC 5:	00:00:00:00:00:00	MAC 21:	00:00:00:00:00:00
MAC 6:	00:00:00:00:00:00	MAC 22:	00:00:00:00:00:00
MAC 7:	00:00:00:00:00:00	MAC 23:	00:00:00:00:00:00
MAC 8:	00:00:00:00:00:00	MAC 24:	00:00:00:00:00:00
MAC 9:	00:00:00:00:00:00	MAC 25:	00:00:00:00:00:00
MAC 10:	00:00:00:00:00:00	MAC 26:	00:00:00:00:00:00
MAC 11:	00:00:00:00:00:00	MAC 27:	00:00:00:00:00:00
MAC 12:	00:00:00:00:00:00	MAC 28:	00:00:00:00:00:00
MAC 13:	00:00:00:00:00:00	MAC 29:	00:00:00:00:00:00
MAC 14:	00:00:00:00:00:00	MAC 30:	00:00:00:00:00:00
MAC 15:	00:00:00:00:00:00	MAC 31:	00:00:00:00:00:00
MAC 16:	00:00:00:00:00:00	MAC 32:	00:00:00:00:00:00

Apply Cancel

Select **Enabled** and choose whether the specified wireless clients will be prevented or permitted to access the wireless network. Enter their MAC address in the fields below and click **Apply** to save the setting.

6.2.4 Advanced Wireless Settings

You can configure various advanced wireless settings on this screen.

The screenshot shows the configuration interface for an AR625W 300N Wireless Router. The top navigation bar includes tabs for Set-up, Wireless, Security, Access Restrictions, Applications Gaming, Admin, and Status. The 'Wireless' tab is selected, and within it, the 'Advanced Wireless Settings' sub-tab is active. The main content area is titled 'Advanced Wireless' and contains the following settings:

Setting	Value	Default / Range
Frame Burst Mode:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	(Default: Enabled)
AP Isolation:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	(Default: Disabled)
Authentication Type:	Auto	(Default: Auto)
Basic Rate:	Default	(Default: Default)
Transmission Rate:	Auto	(Default: Auto)
Transmission Power:	Full	(Default: Full)
CTS Protection Mode:	Auto	(Default: Auto)
Beacon Interval:	100	(Default: 100, Milliseconds, Range: 20~1000)
DTIM Interval:	1	(Default: 1, Range: 1 - 255)
Fragmentation Threshold:	2346	(Default: 2346, Range: 256 - 2346)
RTS Threshold:	2346	(Default: 2346, Range: 256 - 2346)

At the bottom of the page, there are two buttons: 'Apply' and 'Cancel'. The 'Apply' button is highlighted with a red border.

Click **Apply** to save the setting.

6.3 Security

6.3.1 Firewall

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Set-up Wireless **Security** Access Restrictions Applications Gaming Admin Status

Firewall VPN Passthrough

Firewal

SPI Firewall Protection: ☒ Enabled ☐ Disabled

Internet Filter

☒ Filter Anonymous Internet Requests
☐ Filter Multicast
☐ Filter Internet NAT Redirection
☐ Filter IDNT (Port 113)

Web Filter

☐ Proxy ☐ Java ☐ ActiveX ☐ Cookies

Apply Cancel

SPI Firewall Protection: Select to enable or disable Stateful Packet Inspection.

Internet Filter: Place a check to enable various Internet filter including Anonymous Internet Requests, Multicast packets, NAT Redirection, and IDNT port.

Web Filters: You can select to filter Proxy, Java, ActiveX, and/or Cookies.

Click **Apply** to save the setting.

6.3.2 VPN Passthrough

You can select to enable or disable the pass-through of **IPSec**, **PPTP**, and/or **L2TP**.

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Set-up Wireless **Security** Access Restrictions Applications Gaming Admin Status

Firewall **VPN Passthrough**

VPN Passthrough

IPSec Passthrough: ☒ Enabled ☐ Disabled

PPTP Passthrough: ☒ Enabled ☐ Disabled

L2TP Passthrough: ☒ Enabled ☐ Disabled

Apply Cancel

Click **Apply** to save the setting.

6.4 Access Restrictions

6.4.1 Internet Access Policy

You can setup policies that deny or allow specific clients to access the Internet.

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Set-up Wireless Security **Access Restrictions** Applications Gaming Admin Status

Internet Access Policy

Internet Access Policy

Access Policy: 1() [Delete This Policy](#) [Summary](#)

Enter Policy Name:

Status: ☐ Enabled ☒ Disabled

Applied PCs [Edit List](#) (This Policy applies only to PCs on the List.)

Access restriction ☒ Deny ☐ Allow Internet access during selected days and hours.

Schedule **Days:** ☒ Everyday ☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat **Times:** ☒ 24 Hours ☐ 00:00 ~ 00:00

Website Blocking by URL Address URL 1: URL 2:
URL 3: URL 4:

Website Blocking by Keyword Keyword 1: Keyword 2:
Keyword 3: Keyword 4:

Blocked Applications **Note:** Only three applications can be blocked per policy.

Applications	Blocked List
DNS [53~53]	
HTTP [80~80]	
HTTPS [443~443]	
FTP [21~21]	
POP3 [110~110]	
IMAP [143~143]	
SMTP [25~25]	
NNTP [119~119]	
SNMP [161~161]	

[Application Name](#)
[Port Range](#) ~
[Protocol](#) TCP

[Add](#) [Modify](#) [Delete](#)

[Apply](#) [Cancel](#)

Enter Policy Name: Enter a name for the policy.

Status: Choose to enable or disable the selected policy.

PCs: Click on the **Edit List** button to specify the network clients. Policy only applies to the PCs that are in the list.

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List of PCs

MAC Address

01	00:00:00:00:00:00	06	00:00:00:00:00:00
02	00:00:00:00:00:00	07	00:00:00:00:00:00
03	00:00:00:00:00:00	08	00:00:00:00:00:00
04	00:00:00:00:00:00	09	00:00:00:00:00:00
05	00:00:00:00:00:00	10	00:00:00:00:00:00

IP Address

01	192.168.1.0	04	192.168.1.0
02	192.168.1.0	05	192.168.1.0
03	192.168.1.0	06	192.168.1.0

IP Address Range

01	192.168.1.0 ~ 0	03	192.168.1.0 ~ 0
02	192.168.1.0 ~ 0	04	192.168.1.0 ~ 0

Save Settings Cancel Changes Close

You can specify each client by its MAC Address or IP Address. You can also specify a group of clients by entering their IP Address Range. Once you have specified all the clients, click **Save Settings**.

Access Restrictions: Select to **Deny** or **Allow** the specified clients to access the Internet by **Day** and **Time**.

Access restriction

☒ **Deny** ☐ **Allow** Internet access during selected days and hours.

Schedule

Days: ☒ Everyday ☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat

Times: ☒ 24 Hours ☐ 00 : 00 ~ 00 : 00

Blocked Application Port

Select which application port to block, if any, when the specified PCs have Internet access.

For your convenience, nine preset applications and their ports are listed. If you have a custom application, manually enter its name, port range, protocol and click **Add**.

Blocked Applications

Note: Only three applications can be blocked per policy.

Applications		Blocked List
DNS [53~53]		
HTTP [80~80]		
HTTPS [443~443]		
FTP [21~21]		
POP3 [110~110]		
IMAP [143~143]	>>	
SMTP [25~25]	<<	
NNTP [119~119]		
SNMP [161~161]		

Website Blocking

You can block the specified clients from accessing certain websites by URL or Keyword.

Website Blocking by URL Address	URL 1:	<input type="text"/>	URL 2:	<input type="text"/>
	URL 3:	<input type="text"/>	URL 4:	<input type="text"/>
Website Blocking by Keyword	Keyword 1:	<input type="text"/>	Keyword 2:	<input type="text"/>
	Keyword 3:	<input type="text"/>	Keyword 4:	<input type="text"/>

Enter the URL or the Keyword you wish to block.

Click **Apply** to save the setting.

To view all the policies, click the **Summary** button.

6.5 Applications & Gaming

6.5.1 Single Port Forwarding

If you want to host ftp server or online gaming, you must open up ports on the router. This page allows you to setup single port forwarding for the specified applications.

Before using forwarding, you should assign static IP addresses to the designated PCs.

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300N Wireless Router

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Set-up Wireless Security Access Restrictions **Applications Gaming** Admin Status

Single Port Forwarding Port Range Forwarding Port Range Triggering DMZ Qos

Single Port Forwarding

Application Name

None ▾

None ▾

None ▾

None ▾

None ▾

External Port	Internal Port	Protocol	To IP address	Enable
---	---	---	192 . 168 . 1 . 0	<input type="checkbox"/>
---	---	---	192 . 168 . 1 . 0	<input type="checkbox"/>
---	---	---	192 . 168 . 1 . 0	<input type="checkbox"/>
---	---	---	192 . 168 . 1 . 0	<input type="checkbox"/>
---	---	---	192 . 168 . 1 . 0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	TCP ▾	192 . 168 . 1 . 0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	TCP ▾	192 . 168 . 1 . 0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	TCP ▾	192 . 168 . 1 . 0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	TCP ▾	192 . 168 . 1 . 0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	TCP ▾	192 . 168 . 1 . 0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	TCP ▾	192 . 168 . 1 . 0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	TCP ▾	192 . 168 . 1 . 0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	TCP ▾	192 . 168 . 1 . 0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	TCP ▾	192 . 168 . 1 . 0	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	TCP ▾	192 . 168 . 1 . 0	<input type="checkbox"/>

Apply Cancel

Click **Apply** to save the setting.

6.5.2 Port Range Forwarding

If you want to host ftp server or online gaming, you must open up ports on the router. This page allows you to setup port range forwarding for the specified applications.

Before using forwarding, you should assign static IP addresses to the designated PCs.

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Set-up Wireless Security Access Restrictions **Applications Gaming** Admin Status

Single Port Forwarding **Port Range Forwarding** Port Range Triggering DMZ Qos

Port Range Forwarding

Application Name	Start ~ End Port	Protocol	To IP address	Enable
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	192.168.1. <input type="text"/>	<input type="checkbox"/>

Click **Apply** to save the setting.

6.5.3 Port Range Triggering

Port triggering allows the router to keep track of outgoing data for specific port numbers. The router remembers which computer sends out what data, so when the requested data returns through the router, the data is sent back to the proper computer by way of IP address and port mapping rules.

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Set-up Wireless Security Access Restrictions **Applications Gaming** Admin Status

Single Port Forwarding Port Range Forwarding **Port Range Triggering** DMZ Qos

Port Range Triggering

Application Name	Triggered Range	Forwarded Range	Enabled
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="text"/> ~ <input type="text"/>	<input type="checkbox"/>

Apply Cancel

Click **Apply** to save the setting.

6.5.4 DMZ

DMZ (De-Militarized Zone) Host is a host without the protection of the router's firewall. It allows a computer to be exposed to unrestricted two-way communication with the Internet. You should only use this feature when the Port Forwarding function fails to make an application work.

Warning: Setting your computer as a DMZ host exposes it to various security vulnerabilities. This feature should be used only when needed.

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Set-up Wireless Security Access Restrictions Applications Gaming Admin Status

Single Port Forwarding Port Range Forwarding Port Range Triggering DMZ Qos

DMZ

☐ Enabled ☒ Disabled

Source IP Address: ☐ Any IP Address

0 0 0 0 ~ 0

Destination: ☐ IP Address: 192.168.1.0

MAC Address: 00:00:00:00:00:00

Apply Cancel

DMZ: Select to enable or disable DMZ.

Source IP Address: Select any source IP address or specify a source IP address.

Destination: Specify the Destination by its IP Address or MAC Address.

Note: Any DMZ host should have a new static IP address assigned to it because its IP address may change when using the DHCP function.

Click **Apply** to save the setting.

6.5.5 QoS

QoS (Quality of Service) manages information as it is transmitted and received. It ensures better service to those applications with a higher priority.

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Set-up | Wireless | Security | Access Restrictions | **Applications Gaming** | Admin | Status

Single Port Forwarding | Port Range Forwarding | Port Range Triggering | DMZ | **Qos**

QoS (Quality of Service)

Wireless WMM Support: ☐ Enabled ☒ Disabled (Default: Disabled)

No Acknowledgement: ☒ Enabled ☐ Disabled (Default: Enabled)

Internet Access Priority ☐ Enabled ☒ Disabled

Internet (WAN) Bandwidth Download 8Mbps Upload 8Mbps

Category Applications

Applications	MSN Messenger
Priority	Medium (Recommend)
<input type="button" value="Add"/>	

Summary

Priority	Name	Information		
----------	------	-------------	--	--

Click **Apply** to save the setting.

6.6 Administration

6.6.1 Management

The Management screen allows you to change the router's log in password as well as other administrative settings.

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Set-up Wireless Security Access Restrictions Applications Gaming **Admin** Status

Management Log Diagnostics Factory Defaults Firmware Upgrade

Management

Local Router Access Router Password : *****
Re-enter to confirm: *****

Web Access Use HTTPs: ☐ Enabled ☒ Disabled
Web Utility Access via Wireless: ☒ Enabled ☐ Disabled

Web Access Remote Management: ☐ Enabled ☒ Disabled
Use HTTPs: ☒ Enabled ☐ Disabled
Remote Upgrade: ☒ Enabled ☐ Disabled
Allow Remote IP Address: ☐ Any IP Address
 . . . ~
Remote Management Port:

Backup and Restore

UPnP ☒ Enabled ☐ Disabled
Allow Users to Configure: ☒ Enabled ☐ Disabled
Allow Users to Disable Internet Access: ☒ Enabled ☐ Disabled

Router Password: Set the router's log in password.

Web Access: Select to enable or disable HTTPs and Wireless access for the Web Configuration Utility.

Remote Router Access: Select to enable or disable remote management/upgrade of the router. You can allow remote management from any IP Address or a specified IP Address as well as the port number.

Backup and Restore: You can choose to backup the router's settings so that you don't have to manually configure the settings again if you reset the router to factory default.

UPnP: Universal Plug and Play (UPnP) allows Windows Me and XP to automatically configure the router for various Internet applications, such as gaming and videoconferencing.

6.6.2 Log

You can choose to enable or disable logging of your network activity on this screen.

The screenshot shows the web interface of an AR625W 300N Wireless Router. The top navigation bar includes tabs for Set-up, Wireless, Security, Access Restrictions, Applications Gaming, Admin (highlighted with a red box), and Status. Below this is a secondary orange bar with links for Management, Log (highlighted with a red box), Diagnostics, Factory Defaults, and Firmware Upgrade. The main content area is titled "Log" and contains two radio buttons: "Enabled" (unselected) and "Disabled" (selected). Below the radio buttons is a text field for "Logviewer IP Address" with the value "192 . 168 . 1 ." and a small white input box. A "View Log" button is located below the IP address field. At the bottom of the page, there are "Apply" and "Cancel" buttons, with the "Apply" button highlighted by a red box.

Click **Apply** and to save the setting.

6.6.3 Diagnostics

The Diagnostics screen allows you to perform Ping and Traceroute tests.

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Set-up Wireless Security Access Restrictions Applications Gaming **Admin** Status

Management Log **Diagnostics** Factory Defaults Firmware Upgrade

Diagnostics

Ping Test IP or URL Address:

Packet Size: 64 bytes (32~65500)

Times to Ping: 5

Traceroute Test IP or URL Address:

Ping Test: Enter the IP or URL Address you wish to ping and click **Start to Ping**.

Traceroute: Enter the IP or URL Address you wish to trace and click **Start to Traceroute**.

6.6.4 Factory Defaults

The Factory Defaults screen allows you to set all the router's settings to the factory default.



Click on the **Restore Factory Defaults** button to restore all the settings to default.

6.6.5 Firmware Upgrade

The Firmware Upgrade screen allows you to upgrade the router's firmware.

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Set-up Wireless Security Access Restrictions Applications Gaming **Admin** Status

Management Log Diagnostics Factory Defaults **Firmware Upgrade**

Firmware Upgrade

Please Select a File to Upgrade:

Warning: Upgrading firmware may take a few minutes, please don't turn off the power or press the reset button.

0%

Upgrade must NOT be interrupted !!

You must download and unzip the new firmware first from www.airlink101.com

Click on **Browse** to browse to the new firmware, and click **Start to Upgrade**.

6.7 Status

6.7.1 Router

The Router screen displays various status of the router including the firmware version.

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Set-up Wireless Security Access Restrictions Applications Gaming Admin **Status**

Router Local Network Wireless Network

Router Information

Firmware Version:	v1.0.8 ap8x-2.1.4.p7.o
Current Time:	Thu Aug 17 22:21:10 2006 (GMT -08:00)
Internet MAC Address:	00:14:6C:B6:5D:DF
Host Name:	
Domain Name:	Airlink101

Internet Connections

Connection Type:	Automatic Configuration - DHCP
Internet IP Address:	192.168.7.101
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.7.1
DNS 1:	192.168.7.1
DNS 2:	0.0.0.0
DNS 3:	
MTU:	Auto

Click on the **Refresh** button to reload the screen.

6.7.2 Local Network

The Local Network screen displays various status about your Local Area Network.

The screenshot shows the web interface of an AR625W 300N Wireless Router. At the top, there's a navigation bar with tabs: Set-up, Wireless, Security, Access Restrictions, Applications Gaming, Admin, and Status (highlighted in red). Below this is a sub-navigation bar with 'Router', 'Local Network' (highlighted in red), and 'Wireless Network'. The main content area is divided into two sections: 'Local Network' and 'DHCP Server'. The 'Local Network' section displays the following information: Local MAC Address: 00:14:6C:B6:5D:DE, Router IP Address: 192.168.1.1, and Subnet Mask: 255.255.255.0. The 'DHCP Server' section displays: DHCP Server: Enable, Start IP Address: 192.168.1.100, and End IP Address: 192.168.1.149. Below the DHCP Server information is a button labeled 'DHCP Clients Table'.

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Set-up Wireless Security Access Restrictions Applications Gaming Admin **Status**

Router **Local Network** Wireless Network

Local Network

Local MAC Address: **00:14:6C:B6:5D:DE**

Router IP Address: **192.168.1.1**

Subnet Mask: **255.255.255.0**

DHCP Server

DHCP Server : **Enable**

Start IP Address: **192.168.1.100**

End IP Address: **192.168.1.149**

[DHCP Clients Table](#)

Click on the **DHCP Client Table** to display a list of all the DHCP clients in your network.

6.7.3 Wireless Network

The Wireless Network screen displays various status about your wireless network.

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300N Wireless Router


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Set-up

Wireless

Security

Access Restrictions

Applications Gaming

Admin

Status

Router

Local Network

Wireless Network

Wireless Network

MAC Address:

00:14:6C:B6:5D:DE

Mode:

b/g/draft n

Network Name (SSID):

default

Channel:

6

Security:

Disable

SSID Broadcast:

Enable

7. Specifications

Frequency Band

- 2.412~2.4835GHz

Standards

- IEEE 802.11b / 802.11g
- Draft 802.11n

Host Interface

- RJ-45 connectors

Ports

- 1 x WAN port
- 4 x 10/100mbps LAN port

Antenna type

- 3 External 2dBi antennas

Security

- WEP 64-bit/128-bit
- WPA2-PSK (AES) and WPA-PSK

Data Rate

- 300* Mbps
- 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1Mbps auto fallback

System requirement

- Windows®, Mac®, or Linux® operating system
- Installed Ethernet adapter

Power

- 12VDC 600mA

Weight

- 1 lb (with 3 antennas)

Dimensions

- 200 x 160 x 35 mm

Temperature

- Operating: 0°C to 45°C
- Storage: -20°C to 75°C

Humidity

- 10% to 90% Non-Condensing

Warranty

- Limited 1-year warranty

Safety Approvals

- FCC, CE

UPC Code

- 6 58729 08 141 3

Appendix – Information

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

European Union Notice:

Radio products with the CE marking comply with the R&TTE Directive (1999/5/EC), the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN 60950 Product Safety
- EN 300 328 Technical requirement for radio equipment
- EN 301 489-1/-17 General EMC requirements for radio equipment

Technical Support

E-mail: support@airlink101.com

Toll Free: 1-888-746-3238

Web Site: www.airlink101.com

*Theoretical maximum wireless signal rate derived from IEEE 802.11g standard and IEEE 802.11n draft specification version 1.0. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, mix of wireless products used, radio frequency interference (e.g., cordless telephones and microwaves) as well as network overhead lower actual data throughput rate. Specifications are subject to change without notice. All products and trademarks are the property of their respective owners. Copyright ©2006 AirLink101™